

Serial No. 10/790,056

ASA-1168

Amendment

Responsive to Office Action dated December 24, 2008

**RECEIVED
CENTRAL FAX CENTER****Amendments to the Claims:****MAY 26 2009**

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for distributing data multicast from a source and addressed to a receiving terminal which does not support a multicast function via a gateway, the multicast distribution method comprising the steps of:

detecting a data request packet, sent from the receiving terminal registered in a first network to the source, at a first gateway located on a transfer path of a packet between the receiving terminal and the source;

retaining an address of the receiving terminal included in the data request packet;

detecting a registration message which the receiving terminal issues to a second network;

sending a receive state information packet including information relating address information of the source and destination address information of data multicast to a second gateway located on a transfer path of a packet between the second network and the source;

sending from the second gateway a distribution request packet of multicast data, based on a received receive state information packet, to the source; and

converting address information of a multicast data packet sent from the source to an address of the receiving terminal and sending the multicast data packet to the receiving terminal.

2. - 11. (Canceled)

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12. (Previously Presented) A service system which distributes information to a receiving terminal which is not provided with a receiving function of multicast data using multicast communication, comprising:

a distribution server which multicasts data packets including information to provide;

a home agent located in a home network to which the receiving terminal belongs;

a foreign agent located in a foreign network to which the receiving terminal can move;

a first multicast gateway apparatus located on a communication path between the home agent and the distribution server;

a second multicast gateway apparatus located on a communication path between the foreign agent and the distribution server;

wherein the first and the second multicast gateway apparatuses comprise a unit for converting a data packet that is multicast to unicast data, and

the first multicast gateway apparatus, upon receiving a registration message which the receiving terminal issued for the foreign agent, transfers address information of the distribution server and home address information of the receiving terminal to the second gateway,

the second gateway sends a distribution request packet of multicast data to the distribution server,

and further converts multicast data sent from the distribution server to unicast data and sends the unicast data to the receiving terminal.

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13. (Previously Presented) A method for providing service which distributes data multicast that is from a distribution server to a receiving terminal which is not provided with a receiving function of multicast data, comprising the steps of:

detecting a data request packet sent from a receiving terminal registered in a first network to the distribution server at a first gateway located on a transfer path of a packet between the receiving terminal and the distribution server;

retaining an address of the receiving terminal included in the data request packet;

detecting that the receiving terminal moved to a second network by a registration message which the receiving terminal issued to the second network;

sending address information of the distribution server and destination address information of data to be multicast to the second gateway located on a transfer path of a packet between the receiving terminal after moving to the second network and the distribution server;

sending a distribution request packet of multicast data to the distribution server from the second gateway;

converting destination address information of multicast data sent from the distribution server to an address of the receiving terminal; and

sending multicast data with the destination address converted to the receiving terminal.